Cardiology Educational Conference
WEBINAR
“Ultrasound Physics”

Speaker: Sidney K. Edelman, PhD

**Wednesday, August 19, 2020**

Zoom link [https://msu.zoom.us/j/99228313821](https://msu.zoom.us/j/99228313821) / Passcode: 614064

8:30-9:00  Registration
9:00-10:15  ASCeXAM Ultrasound Physics Review
10:15-10:25  Break
10:25-11:30  Ultrasound Physics Review (Cont’d)

**Goals/Objectives:**
- describe the nature of sound
- describe continuous and pulsed sound
- identify the characteristics of sound as it travels in a medium
- describe the many forms of resolution – image accuracy
- describe harmonic imaging principles and technology

**Wednesday, August 26, 2020**

Zoom link [https://msu.zoom.us/j/92574939918](https://msu.zoom.us/j/92574939918) / Passcode: 702980

8:30-9:00  Registration
9:00-10:15  ASCeXAM Ultrasound Physics Review
10:15-10:25  Break
10:25-11:30  Ultrasound Physics Review (Cont’d)

**Goals/Objectives:**
- describe the physical principles of pulsed, continuous & color doppler
- optimize color doppler imaging
- identify image processing techniques and dynamic range
- identify artifacts in ultrasound images
- describe the physical principles of bioeffects and safety